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Mar 18, 2003

DERWENT-ACC-NO: 2001-382758

DERWENT-WEEK: 200321

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TITLE: Synergistic herbicidal agents containing N-aryl-triazolinone and
N-aryl-triazolinethione derivatives, useful for selective weed control in crops

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PONTZEN, R ; WELLMANN, A ; DREWES, M

PATENT-ASSIGNEE: BAYER AG (FARB)

PRIORITY-DATA: 1999DE-1046855 (September 30, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003510258 W	March 18, 2003		068	A01N043/653
DE 19962017 A1	April 5, 2001		014	A01N043/653
WO 200122819 A1	April 5, 2001	G	000	A01N043/653
AU 200075198 A	April 30, 2001		000	A01N043/653
BR 200014670 A	June 18, 2002		000	A01N043/653
CZ 200201141 A3	June 12, 2002		000	A01N043/653
EP 1221848 A1	July 17, 2002	G	000	A01N043/653
KR 2002035601 A	May 11, 2002		000	A01N043/653
HU 200202780 A2	December 28, 2002		000	A01N043/653
CN 1378424 A	November 6, 2002		000	A01N043/653

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL
OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC
MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2003510258W	September 18, 2000	2000WO-EP09089	
JP2003510258W	September 18, 2000	2001JP-0526045	
JP2003510258W		WO 200122819	Based on
DE 19962017A1	December 22, 1999	1999DE-1062017	
WO 200122819A1	September 18, 2000	2000WO-EP09089	
AU 200075198A	September 18, 2000	2000AU-0075198	
AU 200075198A		WO 200122819	Based on
BR 200014670A	September 18, 2000	2000BR-0014670	
BR 200014670A	September 18, 2000	2000WO-EP09089	
BR 200014670A		WO 200122819	Based on
CZ 200201141A3	September 18, 2000	2000WO-EP09089	
CZ 200201141A3	September 18, 2000	2002CZ-0001141	
CZ 200201141A3		WO 200122819	Based on
EP 1221848A1	September 18, 2000	2000EP-0964190	
EP 1221848A1	September 18, 2000	2000WO-EP09089	
EP 1221848A1		WO 200122819	Based on
KR2002035601A	March 15, 2002	2002KR-0703469	
HU 200202780A2	September 18, 2000	2000WO-EP09089	
HU 200202780A2	September 18, 2000	2002HU-0002780	
HU 200202780A2		WO 200122819	Based on
CN 1378424A	September 18, 2000	2000CN-0813735	

INT-CL (IPC): A01 N 25/32; A01 N 37/20; A01 N 43/653; A01 N 49/00

ABSTRACTED-PUB-NO: DE 19962017A

BASIC-ABSTRACT:

NOVELTY - N-Aryl-triazolinones and N-aryl-triazolinethiones form synergistic combinations with known herbicides.

DETAILED DESCRIPTION - A herbicidal agent contains: (a) one or more N-aryl-triazolinones and/or N-aryl-triazolinethiones of formula (I); (b) one or more herbicides from acetochlor, acifluorfen sodium, aclonifen, alachlor, ametryn, amidosulfuron, amitrol, atrazin, azimsulfuron, azafenidin, beflutamid, benazolin, benfluralin, bensulfuron, benzfendazole, benzobicyclon, benzoylprop-ethyl, bentazon, bifenox, bispyribac-sodium, bromobutide, bromofenoxim, bromoxynil, butachlor, butafenacil-allyl, butoxydim, butylate, cafenstrole, caloxydim (tepraloxym), carfentrazone-ethyl, chlormethoxyfen, chloramben, chlorimuronethyl, chlornitrofen, chlorsulfuron, chlortoluron, cinidon-ethyl, cinosulfuron, clefoxydim, clodinafop-propargyl, clopyralid, cloransulam-methyl, cyanazine, cyclosulfamuron, cycloxydim, cyhalofop-butyl, 2,4-D, dicamba, dichlorprop-P, diclofop-methyl, diclosulam, difenzoquat, diflufenican, diflufenzopyr, dimepiperate, dimethenamid, dimethylam, dinitramine, diquat, dithiopyr, diuron, epropodan, EPTC, esprocarb, ethalfluralin, ethoxyfen, ethoxysulfuron, fenoxaprop-(P)-ethyl, fentrazamid, flamprop-isopropyl, flamprop-isopropyl-L, flamprop-methyl, florasulam, fluazifop, fluazifop-butyl, fluazifop-P-butyl, fluazolate, flufenacet, flumetsulam, flumiclorac-pentyl, flumioxazin, flumipropyn, fluoroglycofen-ethyl, flupoxam, flupropacil, flupyrsulfuron-methyl-sodium, flurenol, fluoxypyr, fluoxypyr-butoxypropyl, fluoxypyr-meptyl, flurtamone, fluthiacetmethyl, fomesafen, glufosinate, glufosinate-ammonium, glyphosate, glyphosate-isopropylammonium, halosulfuron-methyl, haloxyfop, haloxyfop-methyl, haloxyfop-P-methyl, haloxyfop-ethoxyethyl, haloxyfop-butyl, hexazinone, imazamethabenz-methyl, imazamethapyr, imazamox, imazaduin, imazethapyr, imazosulfuron, iodosulfuron-methyl-sodium, ioxynil, isoproturin, isoxaben, isoxaflutole, isoxapyrifop, lactofen, linuron, MCPA, mecoprop, mefenacet, mesotrione, metamitron, metazachlor, metobenzuron, metobromuron, metolachlor, S- metolachlor, metosulam, metoxuron, metribuzin, metsulfuron-methyl, molinate, naproanilide, neburon, nicosulfuron, orbencarb, oryzalin, oxadiargyl, oxadiazon, oxasulfuron,

oxaziclomefone, oxyfluorfen, paraquat, pendimethalin, pendralin, picloram, pretilachlor, picolinafen, primisulfuron-methyl, propachlor, propanil, propisochlor, prosulfocarb, prosulfuron, pyraflufen-ethyl, pyrazolate, pyrazoxyfen, pyrazosulfuron-ethyl, pyribenzoxim, pyridafol, pyridate, pyridatol, pyriminobac-methyl, pyriithiobac-sodium, quinmerac, quizalofop, quizalofop-ethyl, quizalofop-P-ethyl, quizalofop-P-tefuryl, rimsulfuron, sethoxydim, simazin, sulcotrione, sulfentrazone, sulfosate, sulfosulfuron, terbutylazine, terbutryn, thenylchlor, thiazopyr, thidiazimin, thifensulfuron-methyl, trialkoxydim, triallate, triasulfuron, tribenuron-methyl, triclopyr, tridiphane, trifluralin, triflusulfuron-methyl, tritosulfuron, N-(((4,6-dimethoxy-2-pyrimidinyl)amino)carbonyl)-3-(methyl(methylsulfonyl)amino)-2-pyridinesulfonamide WO 9210660 and methyl 2-((((4,6-dimethoxy-2-pyrimidinyl)amino)carbonyl)amino)sulfonyl)-4-(((methylsulfonyl)amino)methyl)-benzoate DE 4335297 ; and optionally (c) one or more safeners (antidotes) from oxabetrinil, cyometrinil, fluxofenim, fenclorim, benoxacor, cloquintocet, DKA-24, 1,8-naphthalic acid anhydride, fenchlorazol-ethyl, flurazole, furilazole (MON-13900), AD-67, MG-191, PPG-1292, dichlormid, dymron, BAS-145138, N-(2-methoxy-benzoyl)-4-(methylaminocarbonylamino)-benzenesulfonamide, isoxadifen-ethyl, mefenpyr-diethyl and 2,4-D and its derivatives.

Q1 = O or S;

R1, R2 = 1-5C alkyl optionally substituted with halo;

R3 = H or halo;

R4 = CN, CSNH₂, or halo;

R5 = NO₂, CN, COOH, CONH₂, CSNH₂, OH, SH, NH₂, NHOH, SO₂NH₂, halo, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylcarbonyl, alkoxycarbonyl or alkylamino (each with 1-6C and each optionally substituted with CN, OH, 1-4C alkoxy, 1-4C alkyl-CO and/or 1-4C alkoxy-CO), alkenyl, alkynyl, alkenyloxy or alkynyloxy (each with 2-6C and each optionally substituted with CN, COOH, halo and/or 1-4C alkoxy-CO), alkylcarbonylamino, alkoxycarbonylamino, alkylsulfonylamino, N,N-bisalkylsulfonyl-amino or N-alkylcarbonyl-N-alkylsulfonylamino (each with 1-6C in alkyl and each optionally substituted with halo), or N-(phenylcarbonyl, pyridylcarbonyl, furylcarbonyl or thienylcarbonyl)-N-(1-6C alkyl)sulfonyl-amino (optionally substituted with CN, halo, 1-4C alkyl, 1-4C haloalkyl, 1-4C alkoxy or 1-4C haloalkoxy).

ACTIVITY - Herbicide.

MECHANISM OF ACTION - None given.

USE - The agents containing compounds (I), known from DE 3024316 , DE 3514057 , DE 3636318 , EP 220952 , EP 370332 , EP 597360 , EP 609734 , US 4702763 , US 4806145 , US 4818275 , US 4906284 , US 4909831 , US 5035740 , US 5041155 , WO 8501637 , WO 8504307 , WO 8602642 , WO 8604481 , WO 8700730 , WO 8703782 , WO 8809617 , WO 9002120 , WO 9530661 and WO 9937153 , are useful for the selective control of weeds, including problem weeds, in crops, e.g. barley, maize, rice, soya, sunflowers, wheat and sugar cane.

ADVANTAGE - Components (a) and (b) exert a synergistic effect against weeds.

ABSTRACTED-PUB-NO: DE 19962017A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: C03

CPI-CODES: C05-B01G; C06-H; C07-H; C08-D03; C10-A08; C10-A10; C10-A12B; C10-A13D; C10-A15; C10-A18; C10-B01A; C10-B02A; C10-B03A; C10-B04A; C10-C03; C10-D03; C10-G02; C10-G03; C14-S09; C14-V02;